ELSEVIER

Volume 277, Numbers 1–2, 1 May 1996

thin solid films

Contents

Letters

Dielectric constants of Ta_2O_5 thin films deposited by r.f. sputtering 1
S. Shibata (Tokyo, Japan)

Studies on metal contact to polyaniline films 5
C.D. Lokhande, S.S. Kale, U.S. Jadhav (Kolhapur, India), B.G. Wagh (Nasik, India)

IUPAC Recommendations 1994

Thin films including layers: Terminology in relation to their preparation and characterization. IUPAC Recommendations 1994 7
L. Ter Minassian-Saraga (Paris, France), B. Vincent (Bristol, UK), M. Adler (Meudon, France), A. Barraud (Gif-sur-Yvette, France), N.V. Churaev (Moscow, Russia), D.F. Eaton (Wilmington, DE, USA), H. Kuhn (Tschingel ob Gunten, Switzerland), M. Misono (Tokyo, Japan), D. Platikanov (Sofia, Bulgaria), J. Ralston (Adelaide, SA, Australia), A. Silberberg (Rehovot, Israel), J.N. Zemel (Philadelphia, PA, USA)

Synthesis and Characterization

Deposition of BN coatings by spraying a powder accelerated electrodynamically in a coaxial pulse plasma generator 79
A. Olszyna (Warsaw, Poland)

Characterization of quasi-rugate filters using ellipsometric measurements 83
A.V. Tikhonravov, M.K. Trubetskov (Moscow, Russia), J. Hrdina (Prague, Czech Republic), J. Sobota (Brno, Czech Republic)

Transmission electron microscopy characterisation of ion beam synthesised $FeSi_2$ layers 90
J. Tavares, H. Bender, K. Maex (Leuven, Belgium)

Preparation of transition metal chalcogenide thin films by pulsed laser ablation 98
H. Lee, M. Kanai, T. Kawai (Osaka, Japan)

Time-dependent dielectric breakdown measurements on RPECVD and thermal oxides 101
C. Silvestre, J.R. Hauser (Raleigh, NC, USA)

Dynamic actinometric optical emission spectroscopy for the elucidation of plasma processes in the production of fluorinated amorphous hydrogenated carbon films from glow discharges 115
S.F. Durrant, M.A. Bica de Moraes (Campinas, SP, Brazil)

Surfaces, Interfaces and Colloidal Behaviour

Investigation of grain boundary chemistry in Al-Li 2195 welds using Auger electron spectroscopy 121
J.H. Sanders (Marshall Space Flight Center, AL, USA)

Treatment of MoS_2 films by high-energy heavy ion beams 128
A. Jain, S. Srivastav (New Delhi, India)

Ar/H_2 sputtering deposition of 350 μm thick Si:H/SiO_{2-x}:H multilayers having flat interfaces for optical applications 132
H. Takahashi, H. Nagata, H. Kataoka (Chiba, Japan)

Metallurgical, Protective and Hard Layers

Stability of interfaces in Mo/Cu multilayered metallization 138
S. Luby, E. Majkova, M. Jergel (Bratislava, Slovak Republic), M. Brunel (Grenoble, France), G. Leggieri, A. Luches (Lecce, Italy), G. Majni, P. Mengucci (Ancona, Italy)

Elsevier Science S.A.

Electronics, Optics and Optoelectronics

Design and fabrication of a double bandstop rugate filter grown by plasma-enhanced chemical vapor deposition 144
S. Lim (Seoul, South Korea), S. Shih, J.F. Wager (Corvallis, OR, USA)

Sol–gel preparation and photoelectrochemical properties of TiO_2 films containing Au and Ag metal particles 147
G. Zhao, H. Kozuka, T. Yoko (Kyoto-Fu, Japan)

On some important care to take when making spectrophotometric measurements on semiconductor thin films 155
Y. Laaziz, A. Bennouna (Marrakech, Morocco)

Preparation and properties of spin-coated Nb_2O_5 films by the sol–gel process for electrochromic applications 162
N. Özer (Istanbul, Turkey), D.-G. Chen (Camarillo, CA, USA), C.M. Lampert (Berkeley, CA, USA)

Ion bombardment effect on electronic states in CdS fine particles 169
K. Asai, T. Yamaki, K. Ishigure (Tokyo, Japan), H. Shibata (Ibaraki, Japan)

Superconductivity

Crystallinity for epitaxial thin films of Bi-based oxide superconductor prepared at low temperature 175
K. Mizuno, K. Setsune (Kyoto, Japan)

Langmuir–Blodgett, Biological and Related Films

Preparation of uniaxially oriented polyamide films by vacuum deposition polymerization 180
J. Sakata, M. Mochizuki (Aichi, Japan)

Condensed Matter Film Behaviour

Optimum thickness determination to maximise the spectral selectivity of black pigmented coatings for solar collectors 185
M. Klanjšek Gunde, J. Kožar Logar, Z. Crnjak Orel, B. Orel (Ljubljana, Slovenia)

Deviations from Matthiessen's rule in continuous metal films 192
E. Broitman, P. Alonso, R. Zimmerman (Buenos Aires, Argentina)

Author Index of Volume 277 197

Subject Index of Volume 277 198

The publisher encourages the submission of articles in electronic form thus saving time and avoiding rekeying errors. A leaflet describing our requirements is available from the publisher upon request.